Inventors: Nabil A. Abu El Ata, et al.

Replacement Sheet



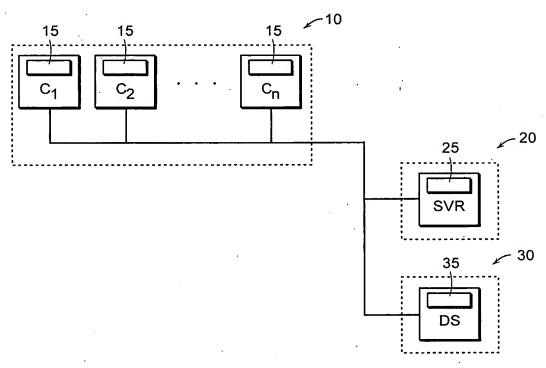
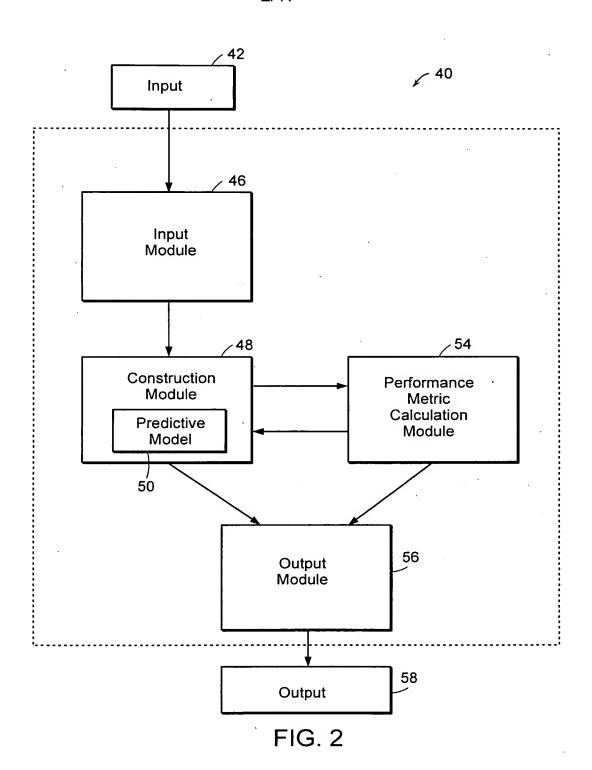


FIG. 1

Inventors: Nabil A. Abu El Ata, et al.

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Nabil A. Abu El Ata, et al. Inventors: Replacement Sheet

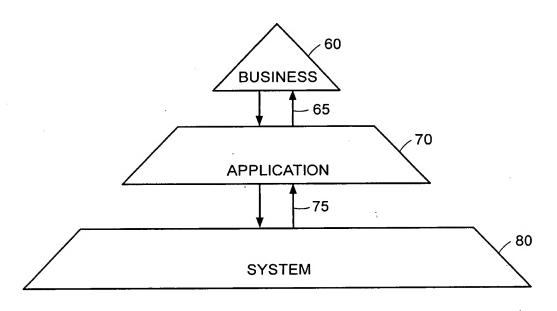
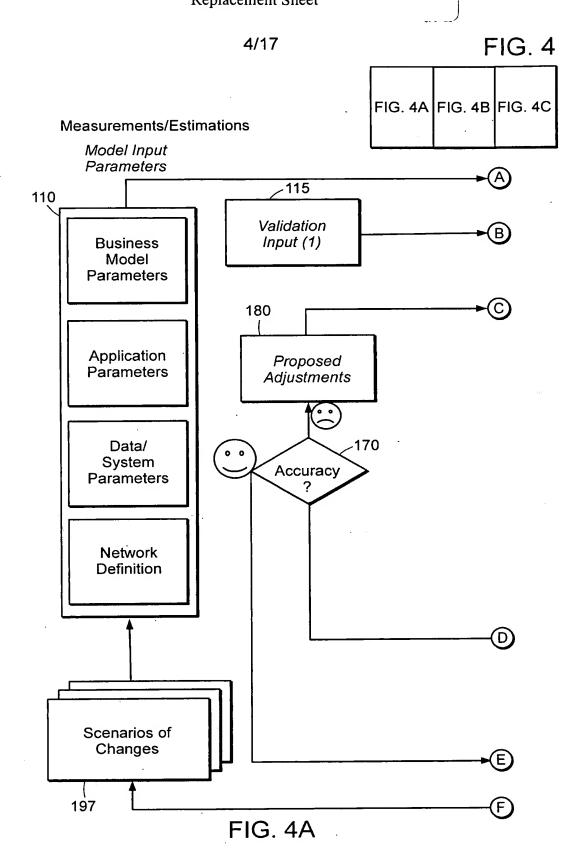


FIG. 3

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Inventors: Nabil A. Abu El Ata, et al.
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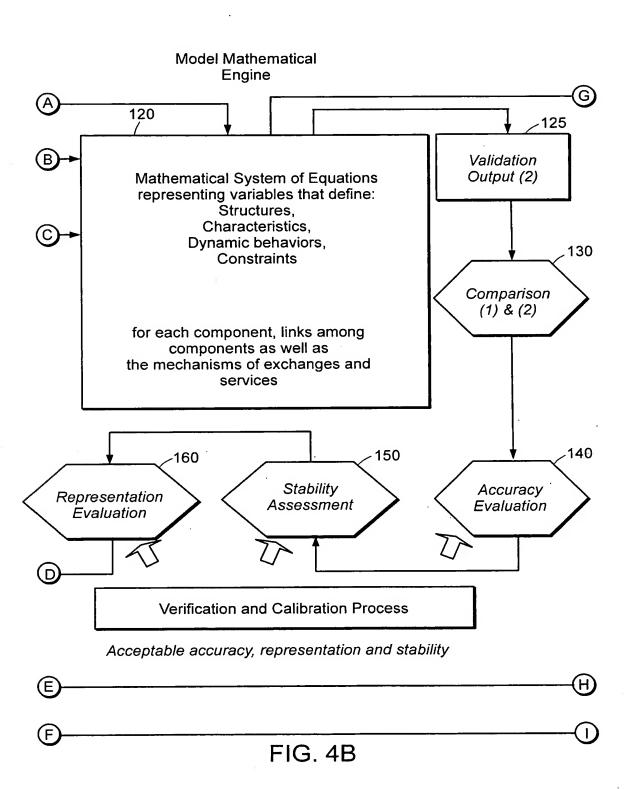


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Inventors: Nabil A. Abu El Ata, et al.

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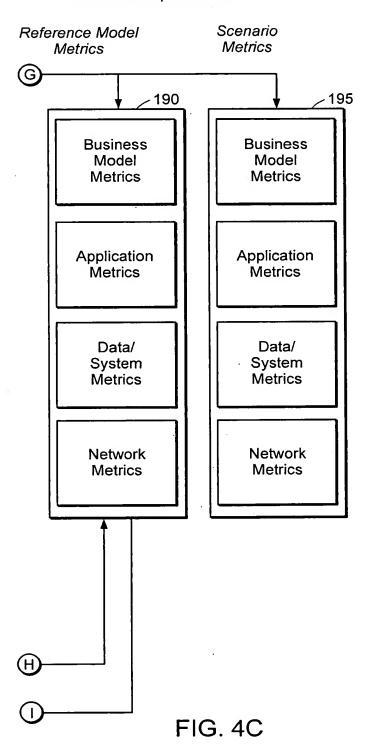
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Inventors:

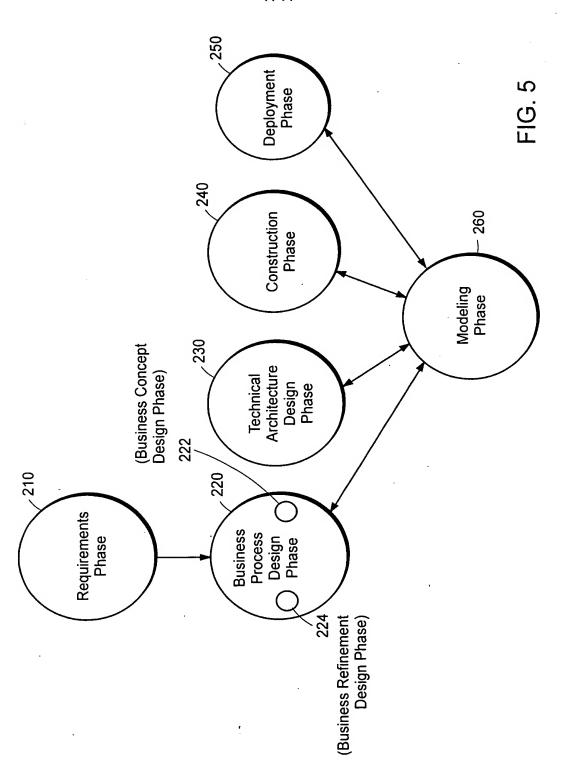
Nabil A. Abu El Ata, et al. Replacement Sheet

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Calculations/predictions



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Inventors: Nabil A. Abu El Ata, *et al.*Replacement Sheet

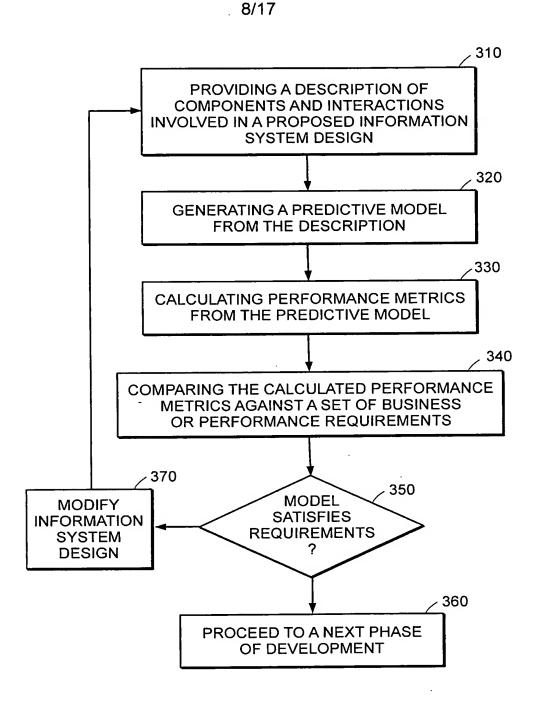
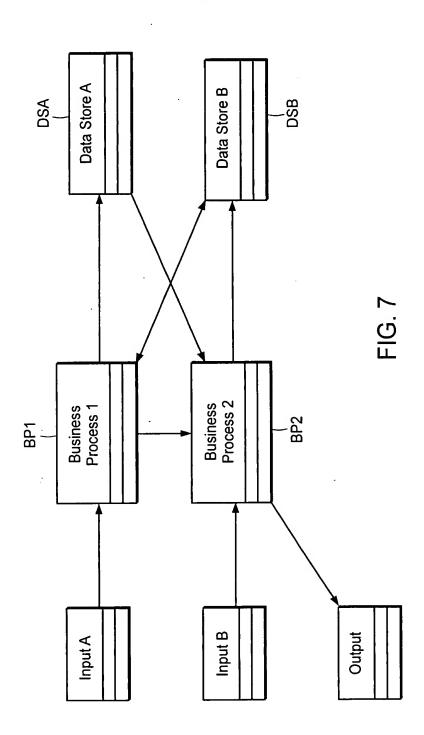


FIG. 6

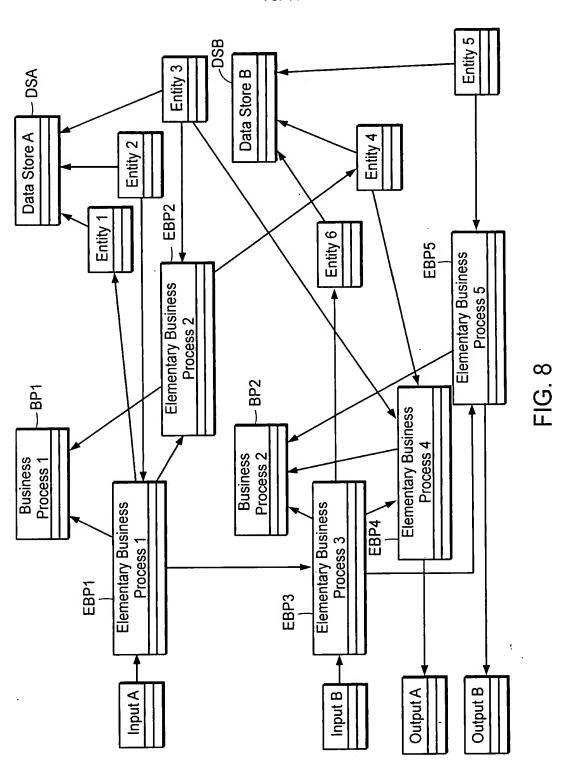
Inventors: Nabil A. Abu El Ata, et al. Replacement Sheet

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Nabil A. Abu El Ata, et al. Inventors: Replacement Sheet

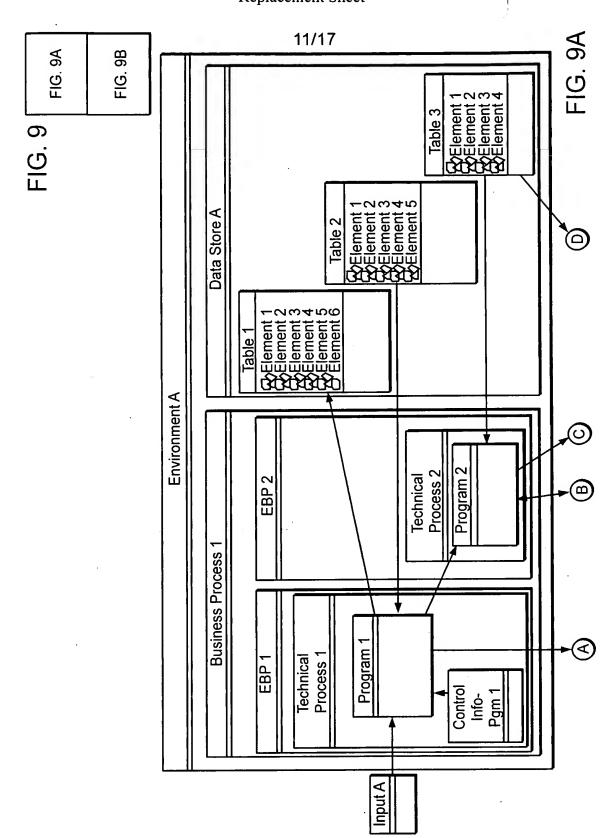
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Title: SYSTEM AND METHOD FOR MULTI-PHASE...

Inventors:

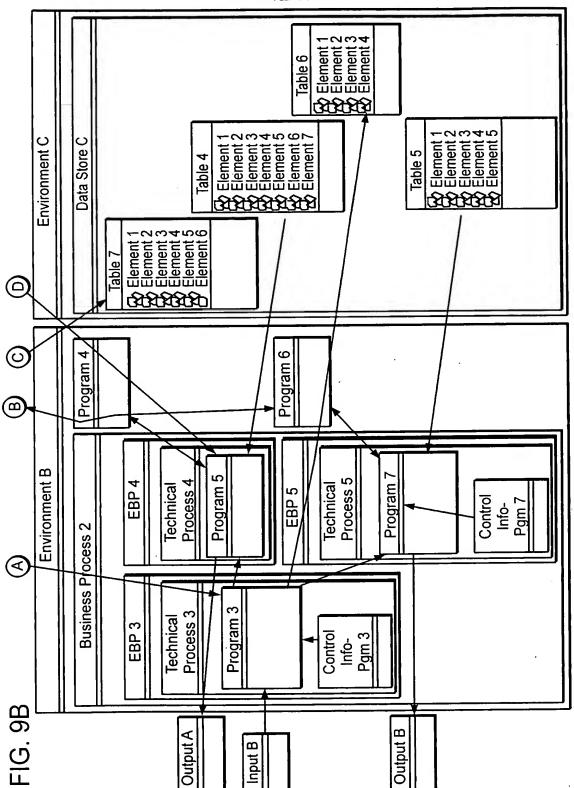
Nabil A. Abu El Ata, et al. Replacement Sheet



Title: SYSTEM AND METHOD FOR MULTI-PHASE...

Inventors: Nabil A. Abu El Ata, et al.
Replacement Sheet





Title: SYSTEM AND METHOD FOR MULTI-PHASE...

Inventors: Nabil A. Abu El Ata, et al.
Replacement Sheet

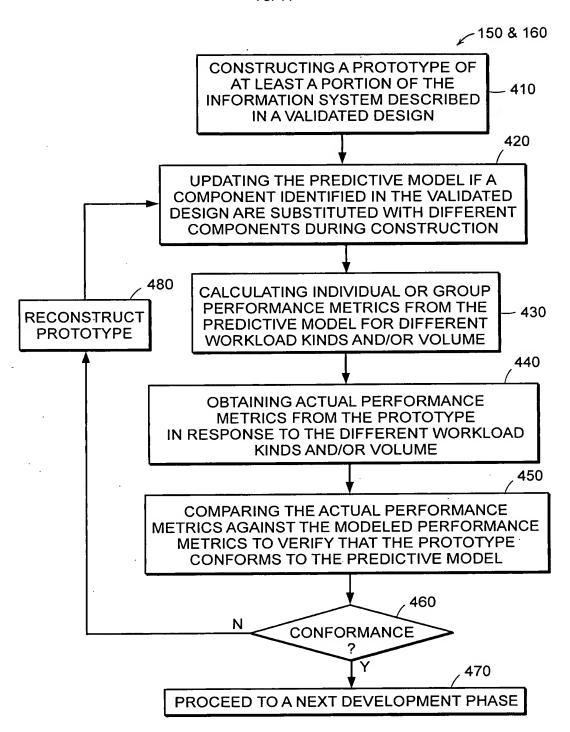
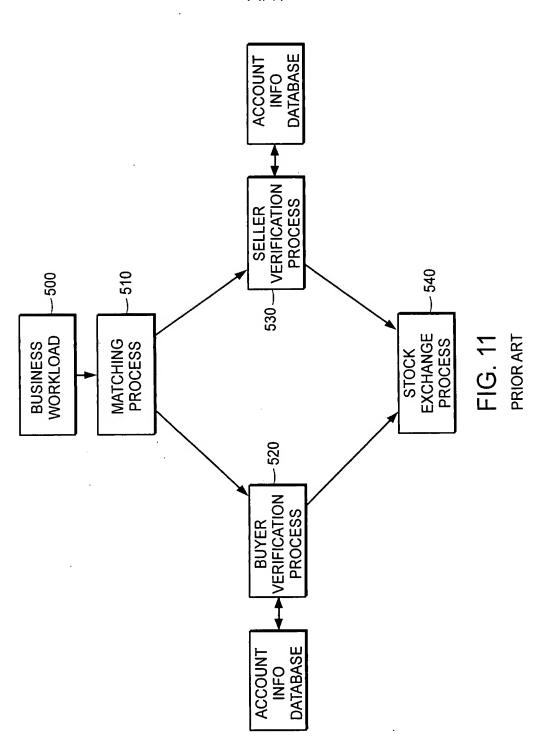


FIG. 10

Nabil A. Abu El Ata, et al. Replacement Sheet Inventors:

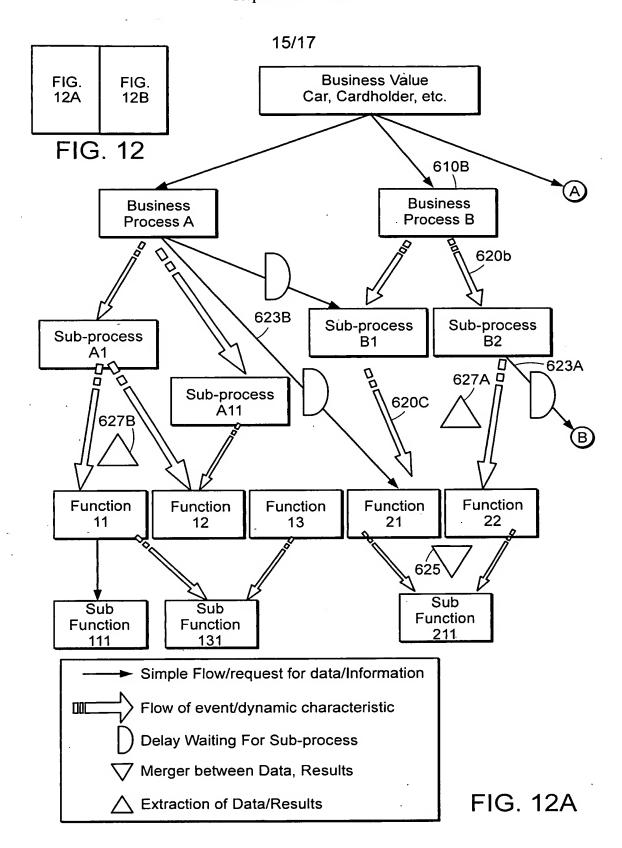




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Inventors: Nabil A. Abu El Ata, et al.
Replacement Sheet

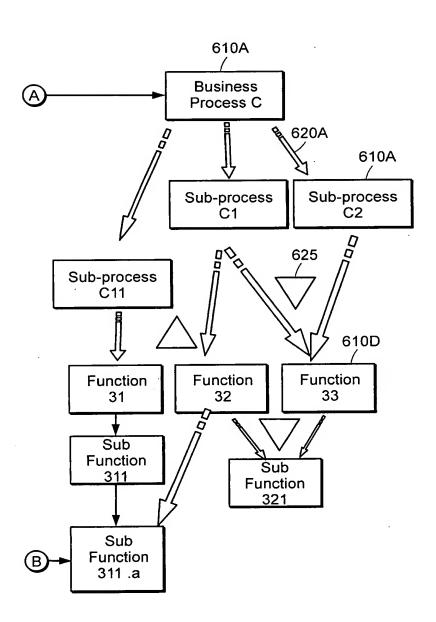


FIG. 12B

Title: SYSTEM AND METHOD FOR MULTI-PHASE... Nabil A. Abu El Ata, et al. Inventors: Replacement Sheet 17/17 710 **GENERATING A PREDICTIVE** MODEL OF AN INFORMATION SYSTEM 720 CALCULATING INDIVIDUAL PERFORMANCE METRICS FOR EACH COMPONENT 760 730 COMPARING THE INDIVIDUAL ADJUST PARAMETER PERFORMANCE METRICS OF COMPONENTS IN THE OF EQUATIONS APPLICATION AND SYSTEM MODELING LAYERS AGAINST THE COMPONENT PERFORMANCE BENCHMARKS 740 FOR EACH COMPONENT, DOES THE INDIVIDUAL PERFORMANCE METRIC SUBSTANTIALLY MATCH THE PERFORMANCE **BENCHMARK?** 750 PROCEED TO A NEXT DEVELOPMENT PHASE

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FIG. 13